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Certificate No.: T- 4358

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2017-05-02-05 **Date: 05-05-2016**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.

Address : Vidyaranyapura Sub division, BBMP, Bangalore.

Project Name : Construction of culverts in ward no.10 (doddabommanasandra), Vidyaranyapura Sub division.

Agency : Sri. K.Anil Kumar, No.84-L, 2nd floor, 3rd cross, 4th main, HAL, 3rd Stage, Thippasandra, Bangalore-560075

Customer's Reference : BBMP/EE/BTP/WO/06/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 02-05-17

Sample ID No : 2017-05-02-05/01

Sample Type : Ultratech cement 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6

Date of test : 03-05-17

Assistant Executive Engineer Vidyaranyapura Sub Division BBMP, Bangalore - 97

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.97	–
2	Finess by Air permeablity method (m^2/kg, Min)	285.5	225m^2/kg, Min
3	Density (gm/cc)	3.19	–
4	Standard Consistency (%)	28.0%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	265 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

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Prepared by
Harshitha

FOR CIVIL Pro.

CIVIL PRO Sig..... Date..... BANGALORE

R KARTHIK RECHAN
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Quality Manager

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Certificate No.: T- 4358

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-05-02-05** **Date: 01-06-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub division, BBMP, Bangalore.
Project Name	:	Construction of culverts in ward no.10 (doddabommanasandra), Vidyaranyapura Sub division.
Agency	:	Sri. K.Anil Kumar, No.84-L, 2nd floor, 3rd cross, 4th main, HAL, 3rd Stage, Thippasandra, Bangalore-560075
Customer's Reference	:	BBMP/EE/BTP/WO/06/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-05-17
Sample ID No	:	2017-05-02-05/01
Sample Type	:	Ultratech cement 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	03-05-17

Compressive Strength			
Sl.No.	**Physical properties**	**Results**	**Requirement as per IS 12269: 2013**
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	56.0N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-05-02-05** **Date:05-05-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub division, BBMP, Bangalore.
Project Name	:	Construction of culverts in ward no.10 (doddabommanasandra), Vidyaranyapura Sub division.
Agency	:	Sri. K.Anil Kumar, No.84-L, 2nd floor, 3rd cross, 4th main, HAL, 3rd Stage, Thippasandra, Bangalore-560075
Customer's Reference	:	BBMP/EE/BTP/WO/06/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	02-05-17
Sample ID No	:	2017-05-02-05/02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates)
		IS: 2386 :1963(Part - 1,3,4) RA2011
		IS 2386 Part 1: Particle Size and Shape
		IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
		IS 2386 Part 4: Mechanical Properties
Date of test	:	02-05-17

Assistant Executive Engineer Vidyaranyapura Sub Division BBMP Bangalore - 97

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	428	428	2.9	97.1	90-100
3	20 mm	9481	9909	66.1	33.9	30-70
4	10 mm	1386	11295	75.3	24.7	10-35
5	4.75 mm	2998	14293	95.3	4.7	0-5
6	Pan	707	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-05-02-05** **Date:05-05-2017**

Sample ID No : 2017-05-02-05/02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.8	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.4	
3	Specific Gravity	2.68	–
4	Bulk Density(Loose) (Kg/l)	1.53	–
5	Bulk Density(Compacted) (Kg/l)	1.56	–
6	Water Absorption(%)	0.19	–

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Prepared by
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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-05-02-05** **Date:05-05-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub division, BBMP, Bangalore.
Project Name	:	Construction of culverts in ward no.10 (doddabommanasandra), Vidyaranyapura Sub division.
Agency	:	Sri. K.Anil Kumar, No.84-L, 2nd floor, 3rd cross, 4th main, HAL, 3rd Stage, Thippasandra, Bangalore-560075
Customer Reference	:	BBMP/EE/BTP/WO/06/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-05-17
Sample ID No	:	2017-05-02-05/02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	02-05-17

Assistant Executive Engineer Vidyaranyapura Sub Division BBMP, Bangalore - 97

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : **5000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	385	385	7.7	92.3	90-100
3	10 mm	3248	3633	72.66	27.34	25-55
4	4.75 mm	984	4617	92.34	7.66	0-10
5	Pan	383	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-05-02-05** **Date:05-05-2017**

Sample ID No : 2017-05-02-05/02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**9.38**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**10.47**	
3	Specific Gravity	**1.59**	_
4	Bulk Density(Loose) (Kg/l)	**1.51**	_
5	Bulk Density(Compacted) (Kg/l)	**1.59**	_
6	Water Absorption(%)	**0.29**	_
7	Aggregate crushing Value(%)	**23.5**	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	**24.6**	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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BBMP, Bangalore - 97

Prepared by
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Quality Manager

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2017-05-02-05** **Date: 05-05-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub division, BBMP, Bangalore.
Project Name	:	Construction of culverts in ward no.10 (doddabommanasandra), Vidyaranyapura Sub division.
Agency	:	Sri. K.Anil Kumar, No.84-L, 2nd floor, 3rd cross, 4th main, HAL, 3rd stage, Thippasandra, Bangalore-560075
Customer's Reference	:	BBMP/EE/BTP/WO/06/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-05-17
Sample ID No	:	2017-05-02-05/03
Sample Type	:	Fine aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	02-05-17
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	212	239	23.9	76.1	60-95	75-100	85-100	95-100
4	1.18 mm	162	401	40.1	59.9	30-70	55-90	75-100	90-100
5	600 micron	234	635	63.5	36.5	15-34	35-59	60-79	80-100
6	300 micron	271	906	90.6	9.4	5-20	8-30	12-40	15-50
7	150 micron	37	943	94.3	5.7	0-10	0-10	0-10	0-15
8	Pan	57	1000	100	0	---	---	---	---
Result :The tested Sample Conforms to Grading Zone II									

Assistant Executive Engineer Vidyaranyapura Sub Division BBMP, Bangalore - 97

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-05-02-05** **Date: 05-05-17**

Sample ID No : 2017-05-02-05/03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.63	_
2	Specific Gravity	2.58	_
3	Material finer than 75 micron(%)	5.1	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2017-05-02-05**	**Date: 05-05-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.	
Address	:	Vidyaranyapura Sub division, BBMP, Bangalore.	
Project Name	:	Construction of culverts in ward no.10 (doddabommanasandra), Vidyaranyapura Sub division.	
Agency	:	Sri. K.Anil Kumar, No.84-L, 2nd floor, 3rd cross, 4th main, HAL, 3rd stage, Thippasandra, Bangalore-560075	
Customer's Reference	:	BBMP/EE/BTP/WO/06/2017-18	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	02-05-17	
Sample ID No	:	2017-05-02-05/04	
Sample Type /Size	:	Precast Cover Slab	
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete	
Date of test	:	02/05/2017	

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(mm)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	250.45	3.250	4477	80.1	17.9	16.6	20.8
2	Cover Slab-2	75.49	250.53	3.390	4475	79.4	17.7	16.5	20.6
3	Cover Slab-3	75.50	250.59	3.285	4476	81.5	18.2	16.9	21.2

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-05-10-02** **Date: 15-05-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.

Address : Vidyaranyapura Sub division, BBMP, Bangalore.

Project Name : Construction of culverts in ward no.10 (doddabommanasandra), Vidyaranyapura Sub division.

Agency : Sri. K.Anil Kumar, No.84-L, 2nd floor, 3rd cross, 4th main, HAL, 3rd Stage, Thippasandra, Bangalore-560075

Customer's Reference : BBMP/EE/BTP/WO/06/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-05-17

Sample ID No : 2017-05-10-02/01

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/05/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	08/05/2017	15/05/2017	150.12 X 151.52 X 149.55	22746	8.127	258.9	11.4	12.1
2	PCC	M15	08/05/2017	15/05/2017	151.32 X 149.28 X 151.39	22589	8.273	272.0	12.0	
3	PCC	M15	08/05/2017	15/05/2017	151.37 X 149.83 X 150.48	22680	8.257	288.9	12.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-05-10-02** **Date: 05-06-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.

Address : Vidyaranyapura Sub division, BBMP, Bangalore.

Project Name : Construction of culverts in ward no.10 (doddabommanasandra), Vidyaranyapura Sub division.

Agency : Sri. K.Anil Kumar, No.84-L, 2nd floor, 3rd cross, 4th main, HAL, 3rd stage, Thippasandra, Bangalore-560075

Customer's Reference : BBMP/EE/BTP/WO/06/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-05-17

Sample ID No : 2017-05-10-02/02

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/06/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	08/05/2017	05/06/2017	149.21 X 151.54 X 149.38	22611	8.195	413.8	18.3	17.6
2	PCC	M15	08/05/2017	05/06/2017	150.38 X 149.48 X 148.59	22479	8.281	377.6	16.8	
3	PCC	M15	08/05/2017	05/06/2017	150.48 X 151.83 X 149.71	22847	8.274	406.7	17.8	

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